

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1. (withdrawn) A method for treating combustible wastes, comprising the steps of:

carbonizing combustible wastes to obtain carbonized products and combustible gas; and

using said carbonized products to purify exhaust gas from a process.

Claim 2. (withdrawn) The method of claim 1, wherein said combustible wastes contain at least one selected from the group consisting of paper and plastics.

Claim 3. (withdrawn) The method of claim 2, wherein said combustible wastes further contain at least one selected from the group consisting of coal, coal tar, pitch, activated sludge, and oil-based residue.

Claim 4. (withdrawn) The method of claim 2, wherein said combustible wastes further contain at least one selected from the group consisting of mill scales and dust of an electric dust collector.

Claim 5. (withdrawn) The method of claim 1, wherein said step of carbonizing comprises carbonizing said combustible wastes at a carbonization temperature of 400°C or more.

Claim 6. (withdrawn) The method of claim 5, wherein said step of carbonizing comprises carbonizing said combustible wastes at a carbonization temperature of 600°C or more.

Claim 7. (withdrawn) The method of claim 6, wherein said step of carbonizing comprises carbonizing said combustible wastes at a carbonization temperature of 1000 to 1300°C.

Claim 8. (withdrawn) The method of claim 1, wherein said step of carbonizing comprises carbonizing said combustible wastes in an inert atmosphere.

Claim 9. (withdrawn) The method of claim 1, wherein said step of carbonizing comprises:

carbonizing said combustible wastes to obtain carbonized products and combustible gas; and
activating said carbonized products.

Claim 10. (withdrawn) The method of claim 1, further comprising the step of grinding said carbonized products so as to have a particle size of 5 mm or smaller.

Claim 11. (withdrawn) The method of claim 1, wherein said carbonized products have a volatile matter of 5 wt% or less.

Claim 12. (withdrawn) The method of claim 11, wherein said carbonized products have a volatile matter of 1 wt% or less.

Claim 13. (withdrawn) The method of claim 1, wherein said exhaust gas from a process is exhaust gas from one process selected from the group consisting of a refuse incinerator,

electric power plant, steel-making electric furnace, scrap melting furnace, and sintering machine for manufacturing iron.

Claim 14. (withdrawn) The method of claim 1, further comprising the step of using the recovered carbonized products as a fuel or a raw material.

Claim 15. (withdrawn) The method of claim 13, wherein said fuel is a fuel used for manufacturing sintered ore in a sintering machine for iron making.

Claim 16. (withdrawn) The method of claim 1, further comprising the step of using said combustible gas as a heat source for carbonization or iron-manufacturing process.

Claim 17. (withdrawn) The method of claim 1, wherein said combustible wastes are a refuse derived fuel (RDF).

Claim 18. (withdrawn) The method claim 1, wherein

said combustible wastes contain at least one selected from the group consisting of paper and plastics;

said combustible wastes further contain at least one selected from a group consisting of mill scales and dust of an electric dust collector; and

said step of carbonizing comprises carbonizing combustible wastes at a carbonization temperature of 1000 to 1300°C .

Claim 19. (currently amended) A method for treating combustible wastes, comprising the steps of:

(a) preliminarily carbonizing said combustible wastes at a temperature of 300 to 800°C in a preliminary carbonization furnace to produce preliminarily carbonized products;

(b) disintegrating said preliminarily carbonized products;

(c) adding and mixing a binder to and with said disintegrated products to produce a mixture;

(d) molding said mixture to produce molded products; and

(e) carbonizing said molded products at a temperature of 600 to 1000°C in a carbonization furnace to produce carbonized products.

Claim 20. (currently amended) The method of claim 19, wherein said step (a) of preliminarily carbonizing comprises preliminarily carbonizing combustible wastes at a temperature of ~~[[300]]~~ 400 to ~~[[800]]~~ 600°C.

Claim 21. (original) The method of claim 19, wherein said step of molding comprises molding said preliminarily carbonized products by a briquetting machine to produce briquettes.

Claim 22. (currently amended) The method of claim 19, wherein said step (e) of carbonizing comprises carbonizing said molded products ~~[[to]]~~ at a temperature of ~~[[600]]~~ 700 to ~~[[1000]]~~ 900°C.

Claim 23. (original) The method of claim 19, wherein said step of carbonizing comprises carbonizing said molded products in the presence of water vapor.

Claim 24. (original) The method of claim 19, wherein said step of carbonizing comprises carbonizing said molded products by using carbonization gas as a heat source.

Claim 25. (original) The method of claim 19, wherein said combustible wastes are combustible wastes containing a refuse derived fuel.

Claim 26. (original) The method of claim 19, wherein said combustible wastes are a refuse derived fuel.

Claim 27. (original) The method of claim 19, wherein said combustible wastes have an O/C atomicity ratio of 0.2 to 0.8 and an H/C atomicity ratio of 0.5 to 2.3.

Claim 28. (currently amended) The method of claim 19,
further comprising the ~~steps~~ step of:

~~disintegrating said preliminarily carbonized products[[;]]~~
and

removing iron and nonferrous metals from the disintegrated
preliminarily carbonized products.

Claim 29. (original) The method of claim 19, further
comprising the step of adding coal or coke to said preliminarily
carbonized products.

Claim 30. (canceled).

Claim 31. (original) The method of claim 19, further
comprising the step of using said carbonized products as an agent
for treating exhaust gas.

Claim 32. (original) The method of claim 19, further
comprising the steps of:

removing granular carbonized products from said carbonized products; and

returning said granular carbonized products to said step of molding the preliminarily carbonized products.

Claim 33. (original) The method of claim 19, further comprising the steps of:

removing granular carbonized products from said carbonized products; and

using said granular carbonized products as a raw material blown as a fuel.

Claim 34. (withdrawn) Activated charcoal manufactured by the method for treating combustible wastes according to claim 19.

Claim 35. (withdrawn) The carbonized products of claim 34, wherein said activated charcoal has a Roga's strength of 88% or higher and a specific surface area of 148 m²/g or larger.

Claim 36. (withdrawn) A method for treating combustible wastes, comprising the steps of:

carbonizing said combustible wastes at a temperature of 500 to 1000°C; and

obtaining carbonized products and carbonization gas after the carbonization.

Claim 37. (withdrawn) The method of claim 36, wherein said carbonizing is carried out under a pressure of 0.5 to 50 MPa.

Claim 38. (withdrawn) The method of claim 36, wherein said combustible wastes are a solid fuel in which refuse is solidified.

Claim 39. (withdrawn) The method of claim 36, wherein said combustible wastes comprises a solid fuel in which refuse is solidified and coal or high-carbon refuse.

Claim 40. (withdrawn) The method of claim 36, wherein the residue obtained by carbonization is ground to separate a carbon matter and ash.

Claim 41. (withdrawn) The method of claim 36, further comprising the step of using said carbonization gas as a heat source for carbonization.

Claim 42. (withdrawn) A method for treating combustible wastes, comprising the steps of:

- preparing a refuse derived fuel;
- carbonizing said refuse derived fuel at a temperature of 500 to 1000°C; and
- obtaining carbonized products and carbonization gas after the carbonizing.

Claim 43. (withdrawn) The method of claim 42, wherein said step of preparing the refuse derived fuel comprises impregnating said refuse derived fuel with a binder.

Claim 44. (withdrawn) The method of claim 42, wherein said step of preparing the refuse derived fuel comprises impregnating said refuse derived fuel with a binder and compression molding said refuse derived fuel.

Claim 45. (withdrawn) The method of claim 42, wherein said step of carbonizing comprises carbonizing said refuse derived fuel in the presence of water vapor.

Claim 46. (withdrawn) The method of claim 42, further comprising the step of activating said carbonized products.

Claim 47. (withdrawn) The method of claim 42, further comprising the step of using said carbonization gas as a heat source for carbonizing.

Claim 48. (withdrawn) Activated charcoal manufactured by the method for treating combustible wastes according to claim 42.